

Kar-Chun Tan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/523863/publications.pdf>

Version: 2024-02-01

50
papers

2,462
citations

186265

28
h-index

214800

47
g-index

57
all docs

57
docs citations

57
times ranked

2218
citing authors

#	ARTICLE	IF	CITATIONS
1	Dothideomyceteâ€“Plant Interactions Illuminated by Genome Sequencing and EST Analysis of the Wheat Pathogen <i>Stagonospora nodorum</i> . <i>Plant Cell</i> , 2007, 19, 3347-3368.	6.6	235
2	The nutrient supply of pathogenic fungi; a fertile field for study. <i>Molecular Plant Pathology</i> , 2003, 4, 203-210.	4.2	195
3	SnTox3 Acts in Effector Triggered Susceptibility to Induce Disease on Wheat Carrying the Snn3 Gene. <i>PLoS Pathogens</i> , 2009, 5, e1000581.	4.7	175
4	<i>Stagonospora nodorum</i> : cause of stagonospora nodorum blotch of wheat. <i>Molecular Plant Pathology</i> , 2006, 7, 147-156.	4.2	153
5	Assessing the impact of transcriptomics, proteomics and metabolomics on fungal phytopathology. <i>Molecular Plant Pathology</i> , 2009, 10, 703-715.	4.2	121
6	Accessories Make the Outfit: Accessory Chromosomes and Other Dispensable DNA Regions in Plant-Pathogenic Fungi. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 779-788.	2.6	93
7	The Disruption of a GÎ± Subunit Sheds New Light on the Pathogenicity of <i>Stagonospora nodorum</i> on Wheat. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 456-466.	2.6	83
8	Proteinaceous necrotrophic effectors in fungal virulence. <i>Functional Plant Biology</i> , 2010, 37, 907.	2.1	80
9	Differential effector gene expression underpins epistasis in a plant fungal disease. <i>Plant Journal</i> , 2016, 87, 343-354.	5.7	75
10	Regulation of proteinaceous effector expression in phytopathogenic fungi. <i>PLoS Pathogens</i> , 2017, 13, e1006241.	4.7	75
11	Quantitative Variation in Effector Activity of ToxA Isoforms from <i>Stagonospora nodorum</i> and <i>Pyrenophora tritici-repentis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 515-522.	2.6	70
12	A functionally conserved Zn ₂ Cys ₆ binuclear cluster transcription factor class regulates necrotrophic effector gene expression and host-specific virulence of two major Pleosporales fungal pathogens of wheat. <i>Molecular Plant Pathology</i> , 2017, 18, 420-434.	4.2	69
13	The Transcription Factor StuA Regulates Central Carbon Metabolism, Mycotoxin Production, and Effector Gene Expression in the Wheat Pathogen <i>Stagonospora nodorum</i> . <i>Eukaryotic Cell</i> , 2010, 9, 1100-1108.	3.4	63
14	Mannitol 1-Phosphate Metabolism Is Required for Sporulation in Planta of the Wheat Pathogen <i>Stagonospora nodorum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 110-115.	2.6	53
15	Novel sources of resistance to <i>Septoria nodorum</i> blotch in the Vavilov wheat collection identified by genome-wide association studies. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1223-1238.	3.6	53
16	A quantitative PCR approach to determine gene copy number. <i>Fungal Genetics Reports</i> , 2008, 55, 5-8.	0.6	53
17	Transcription factor control of virulence in phytopathogenic fungi. <i>Molecular Plant Pathology</i> , 2021, 22, 858-881.	4.2	50
18	Metabolite profiling identifies the mycotoxin alternariol in the pathogen <i>Stagonospora nodorum</i> . <i>Metabolomics</i> , 2009, 5, 330-335.	3.0	48

#	ARTICLE	IF	CITATIONS
19	Assessing European Wheat Sensitivities to <i>Parastagonospora nodorum</i> Necrotrophic Effectors and Fine-Mapping the Snn3-B1 Locus Conferring Sensitivity to the Effector SnTox3. <i>Frontiers in Plant Science</i> , 2018, 9, 881.	3.6	48
20	Genetic mapping using a wheat multi-founder population reveals a locus on chromosome 2A controlling resistance to both leaf and glume blotch caused by the necrotrophic fungal pathogen <i>Parastagonospora nodorum</i> . <i>Theoretical and Applied Genetics</i> , 2020, 133, 785-808.	3.6	48
21	Comprehensive Annotation of the <i>Parastagonospora nodorum</i> Reference Genome Using Next-Generation Genomics, Transcriptomics and Proteogenomics. <i>PLoS ONE</i> , 2016, 11, e0147221.	2.5	47
22	A Signaling-Regulated, Short-Chain Dehydrogenase of <i>Stagonospora nodorum</i> Regulates Asexual Development. <i>Eukaryotic Cell</i> , 2008, 7, 1916-1929.	3.4	45
23	Pan- <i>Parastagonospora</i> Comparative Genome Analysisâ€”Effector Prediction and Genome Evolution. <i>Genome Biology and Evolution</i> , 2018, 10, 2443-2457.	2.5	43
24	Fine-Mapping the Wheat <i>Snn1</i> Locus Conferring Sensitivity to the <i>Parastagonospora nodorum</i> Necrotrophic Effector SnTox1 Using an Eight Founder Multiparent Advanced Generation Inter-Cross Population. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2257-2266.	1.8	38
25	Sensitivity to three <i>Parastagonospora nodorum</i> necrotrophic effectors in current Australian wheat cultivars and the presence of further fungal effectors. <i>Crop and Pasture Science</i> , 2014, 65, 150.	1.5	37
26	Spatial and temporal coordination of expression of immune response genes during <i>Pseudomonas</i> infection of horseshoe crab, <i>Carcinoscorpius rotundicauda</i> . <i>Genes and Immunity</i> , 2005, 6, 557-574.	4.1	34
27	A specific fungal transcription factor controls effector gene expression and orchestrates the establishment of the necrotrophic pathogen lifestyle on wheat. <i>Scientific Reports</i> , 2019, 9, 15884.	3.3	34
28	Deep proteogenomics; high throughput gene validation by multidimensional liquid chromatography and mass spectrometry of proteins from the fungal wheat pathogen <i>Stagonospora nodorum</i> . <i>BMC Bioinformatics</i> , 2009, 10, 301.	2.6	33
29	Functional redundancy of necrotrophic effectors â€” consequences for exploitation for breeding. <i>Frontiers in Plant Science</i> , 2015, 6, 501.	3.6	33
30	Analysis of Reproducibility of Proteome Coverage and Quantitation Using Isobaric Mass Tags (iTRAQ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.7	28
31	Quantitative proteomic analysis of Gâ€”protein signalling in <i>Stagonospora nodorum</i> using isobaric tags for relative and absolute quantification. <i>Proteomics</i> , 2010, 10, 38-47.	2.2	25
32	Proteomic identification of extracellular proteins regulated by the Gna1 G1± subunit in <i>Stagonospora nodorum</i> . <i>Mycological Research</i> , 2009, 113, 523-531.	2.5	24
33	Septoria Nodorum Blotch of Wheat: Disease Management and Resistance Breeding in the Face of Shifting Disease Dynamics and a Changing Environment. <i>Phytopathology</i> , 2021, 111, 906-920.	2.2	24
34	Genomeâ€”Wide Association Mapping of Resistance to Septoria Nodorum Leaf Blotch in a Nordic Spring Wheat Collection. <i>Plant Genome</i> , 2019, 12, 180105.	2.8	22
35	Absence of detectable yield penalty associated with insensitivity to <i>leosporales</i> necrotrophic effectors in wheat grown in the <i>W</i> est <i>A</i> ustralian wheat belt. <i>Plant Pathology</i> , 2014, 63, 1027-1032.	2.4	20
36	Development of genetic <i>SSR</i> markers in <i>Blumeria graminis</i> f. sp. <i>hordei</i> and application to isolates from Australia. <i>Plant Pathology</i> , 2015, 64, 337-343.	2.4	16

#	ARTICLE	IF	CITATIONS
37	Low Amplitude Boom-and-Bust Cycles Define the Septoria Nodorum Blotch Interaction. <i>Frontiers in Plant Science</i> , 2019, 10, 1785.	3.6	16
38	Vavilov wheat accessions provide useful sources of resistance to tan spot (syn. yellow spot) of wheat. <i>Plant Pathology</i> , 2018, 67, 1076-1087.	2.4	15
39	Chromosome-level genome assembly and manually-curated proteome of model necrotroph <i>Parastagonospora nodorum</i> Sn15 reveals a genome-wide trove of candidate effector homologs, and redundancy of virulence-related functions within an accessory chromosome. <i>BMC Genomics</i> , 2021, 22, 382.	2.8	12
40	Necrotrophic Pathogens of Wheat. , 2016, , 273-278.		11
41	Identification and cross-validation of genetic loci conferring resistance to <i>Septoria nodorum</i> blotch using a German multi-founder winter wheat population. <i>Theoretical and Applied Genetics</i> , 2021, 134, 125-142.	3.6	11
42	Hidden in plain sight: a molecular field survey of three wheat leaf blotch fungal diseases in North-Western Europe shows co-infection is widespread. <i>European Journal of Plant Pathology</i> , 2021, 160, 949-962.	1.7	9
43	Dissecting the role of histidine kinase and HOG1 mitogen-activated protein kinase signalling in stress tolerance and pathogenicity of <i>Parastagonospora nodorum</i> on wheat. <i>Microbiology (United Kingdom)</i> Tj ETQq1 1 0.784314 rgt /Overclock 10 Tf		
44	Variability in an effector gene promoter of a necrotrophic fungal pathogen dictates epistasis and effector-triggered susceptibility in wheat. <i>PLoS Pathogens</i> , 2022, 18, e1010149.	4.7	9
45	CWAS analysis reveals distinct pathogenicity profiles of Australian <i>Parastagonospora nodorum</i> isolates and identification of marker-trait-associations to septoria nodorum blotch. <i>Scientific Reports</i> , 2021, 11, 10085.	3.3	7
46	Proteomic Techniques for Plant-Fungal Interactions. <i>Methods in Molecular Biology</i> , 2012, 835, 75-96.	0.9	4
47	Transcription factor lineages in plant-pathogenic fungi, connecting diversity with fungal virulence. <i>Fungal Genetics and Biology</i> , 2022, 161, 103712.	2.1	4
48	Gene Validation and Remodelling Using Proteogenomics of <i>Phytophthora cinnamomi</i> , the Causal Agent of Dieback. <i>Frontiers in Microbiology</i> , 2021, 12, 665396.	3.5	3
49	An optimized sporulation method for the wheat fungal pathogen <i>Pyrenophora tritici-repentis</i> . <i>Plant Methods</i> , 2021, 17, 52.	4.3	2
50	12 Metabolomics and Proteomics to Dissect Fungal Phytopathogenicity. , 2014, , 301-319.		1